

**GENERAL NOTES:**

- THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
- ALL GEODATIC ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.
- FOR UTILITY LOCATION PURPOSES, THIS PROJECT IS LOCATED IN SECTIONS 27, 28, 33 & 34 OF THE TOWNSHIP 3 NORTH, RANGE 8 WEST OF THE THIRD PRINCIPAL MERIDIAN FOR MADISON COUNTY.
- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - AMEREN IP (GAS & ELECTRIC)
  - AT&T (COMMUNICATIONS)
  - AT&T CORPORATION (COMMUNICATIONS)
  - BUCO SERVICES, LTD (COMMUNICATIONS)
  - CHARTER COMMUNICATIONS, INC. (CABLE TV)
  - CITY OF COLLINSVILLE (WATER & SANITARY SEWER)
  - MCLEOD (COMMUNICATIONS)
 MEMBERS OF J.U.L.I.E. (800-892-0123) ARE INDICATED BY AN "N"-NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE. COST FOR PROTECTIVE COAT IS INCLUDED IN EACH PAY ITEM, THERE IS NO SEPARATE PAYMENT.
- MIXTURES FOR JOINTS, CRACKS, AND FLAGWAYS SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- THE USE OF VIBRATORY ROLLERS IS NOT ALLOWED IN RESIDENTIAL AREAS AND IS PROHIBITED IN ALL AREAS, UNLESS IT CAN BE DETERMINED BY THE CONTRACTOR THAT THE EXISTING/PROPOSED UTILITIES WILL NOT BE AFFECTED. IF IT IS DETERMINED THAT THE UTILITIES WILL BE UNAFFECTED, VIBRATORY ROLLERS MAY BE USED ON THIS PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE BITUMINOUS PAVEMENTS.
- THE CONTRACTOR SHALL BE AWARE THAT THERE ARE MANHOLES & VALVES LOCATED WITHIN THE RESURFACING AND RECONSTRUCTION LIMITS. CARE SHALL BE TAKEN IN THESE LOCATIONS DURING MILLING OPERATIONS.
- AGGREGATE FOR TEMPORARY ACCESS MAY BE SUBSEQUENTLY USED IN PERMANENT CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING AND REUSING THE MATERIAL.
- THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- ANY EARTHWORK ASSOCIATED WITH REMOVAL OR PLACEMENT OF THE GUTTER AND CURB & GUTTER SHALL BE INCLUDED IN THE COST FOR THE GUTTER AND COMBINATION CONCRETE CURB & GUTTER.
- THE PROPOSED EMBANKMENT SHALL BE BENCHMARKED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- THE MANUFACTURER SHALL SPECIFICALLY RECOMMEND ALL EROSION CONTROL PRODUCTS FURNISHED FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATE BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- THE CONTRACTOR SHALL PROVIDE, AT THE DIRECTION OF AND TO THE SATISFACTION OF THE ENGINEER, ELECTRONIC AS-BUILT DRAWINGS OF THE WATER AND SANITARY SEWER LINES CONSTRUCTED AS PART OF THIS PROJECT.
- ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SODDED, AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SODDED AT THE CONTRACTOR'S EXPENSE.
- EXISTING TREES THAT ARE NOT SHOWN ON THE PLANS AS "TO BE REMOVED" SHALL REMAIN UNDAMAGED.
- THE CONTRACTOR SHALL RELOCATE ALL TRAFFIC, PRIVATE AND COMMERCIAL SIGNS IN ACCORDANCE WITH ARTICLES 107.20 & 107.25 AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PROJECT AND ANY DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
- ALL DIMENSIONS ARE SHOWN IN FEET UNLESS NOTED. PAVEMENT THICKNESS, CULVERT SIZE, TRAFFIC SIGNAL CONDUIT SIZES, AND PAVEMENT MARKING WIDTHS ARE SHOWN IN INCHES UNLESS NOTED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.
- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE AND 48" X 48".
- FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS AT THE DIRECTION OF THE ENGINEER, NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- EXCAVATION ADJACENT TO EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH STEADY BURN LIGHTS.
- SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED, PRIMED, AND FINAL SURFACE AS NECESSARY PRIOR TO APPLICATION OF TEMPORARY OR PERMANENT PAVEMENT MARKING. TEMPORARY PAVEMENT MARKING SHALL BE USED FOR STAGING AS QUANTIFIED IN THE TEMPORARY STRIPING SCHEDULE. AN ADDITIONAL QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT HAS ALSO BEEN ADDED TO THE TEMPORARY STRIPING SCHEDULE FOR STAGE IV CONSTRUCTION. ONLY THE REMOVAL OF THE FINAL TEMPORARY PAVEMENT MARKING APPLICATION WILL BE PAID FOR UNDER WORK ZONE PAVEMENT MARKING REMOVAL - 50 FT.
- ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- SIDEWALKS, ENTRANCES AND OFF-STREET PARKING AREAS SHALL BE REPLACED IN-KIND UNLESS OTHERWISE NOTED.
- ANY ITEM AS DETERMINED BY THE ENGINEER TO BE IN CONFLICT WITH THE PROJECT, NOT ACCOUNTED FOR BY LAND ACQUISITIONS OR OTHERWISE MENTIONED ELSEWHERE IN THE PLANS, SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF BY THE CONTRACTOR, AS SPECIFIED BY THE ENGINEER ACCORDING TO SECTION 109.04 IN THE STANDARD SPECIFICATIONS.
- THE CONTACT FOR THE CITY OF COLLINSVILLE WILL BE ROD CHEATHAM AT (618) 346-5200.
- SIGNS WITH WHITE LETTERING ON GREEN BACKGROUND WITH THE WORDS "BUSINESS OPEN" SHALL BE PROVIDED AT VARIOUS LOCATIONS AT THE DISCRETION OF THE ENGINEER. SIGNS SHALL BE A MINIMUM OF 24" WIDE BY 18" HIGH. THE COST SHALL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DOCUMENTATION SHOWING THE DECORATIVE SIGN POSTS MEET FEDERAL BREAKAWAY REQUIREMENTS (NCHRP - 350)
- THE CONTRACTOR SHALL BE AWARE THAT THE BUILDING DEMOS WILL BE ON A LETTING AFTER THE ROADWAY LETTING. THE CONTRACTOR SHALL COORDINATE ACCORDINGLY.
- STAIR REMOVAL SHALL BE INCLUDED IN SIDEWALK REMOVAL QUANTITY AND IS INCIDENTAL TO THE COST. THE NUMBER OF RISERS VARIES PER LOCATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND INCLUDE IN PRICE FOR SIDEWALK REMOVAL. NO SEPARATE PAYMENT WILL BE MADE FOR STAIR REMOVAL.
- CONTRACTOR SHALL STORE PARKING BLOCKS LOCATED ON EXISTING PARKING LOTS AND REPLACE AFTER LOTS ARE RECONSTRUCTED PER DIRECTION OF THE ENGINEER. THIS IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE.

**HIGHWAY STANDARDS**

000001-06	604001-03	701602-06	862001-01
001001-02	604006-04	701606-08	873001-02
280001-07	604036-02	701701-08	876001-02
420001-07	606001-05	701801-05	877001-05
424001-07	606006-02	701901-02	878001-09
424011-01	606101-04	704001-07	880006-01
424021-01	606211-03	720001-01	886001-01
424026-01	606301-04	720006-03	886006-01
424031-01	666001-01	720016-03	
442201-03	667101-02	728001-01	
602011-02	701001-02	780001-03	
602301-03	701006-04	781001-03	
602306-03	701011-03	782001	
602401-03	701301-04	805001-01	
602406-05	701311-03	814001-02	
602601-02	701501-06	814006-02	
602701-02	701502-05	857001-01	

- HIGH EARLY STRENGTH CONCRETE WILL BE USED FOR ALL ENTRANCES THAT ARE TOO NARROW TO STAGE. PROPERTY OWNER SHALL BE NOTIFIED 7 DAYS PRIOR TO CONSTRUCTION.
- THERE MAY BE SEVERAL PROPERTIES IN COLLINSVILLE THAT HAVE OLD COAL CHUTES LOCATED UNDER THE EXISTING SIDEWALK OR OTHER ROADWAY ITEMS SCHEDULED FOR REMOVAL. WHEN THIS SITUATION IS ENCOUNTERED, A STEEL PLATE, OR OTHER APPROVED MATERIAL, SHALL BE USED TO SEAL THE OPENING INTO THE BUILDING PRIOR TO BACKFILLING IN ORDER TO PREVENT ANY OVERFLOW OF BACKFILL MATERIAL BACK INTO THE BUILDING. THIS WORK WILL BE PAID UNDER ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618/874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- TEMPORARY PAVEMENT MARKING ON FINAL SURFACE SHALL BE REMOVED USING WATER BLASTING METHOD. NO GRINDING WILL BE ALLOWED ON FINAL SURFACE.
- MINOR ITEMS WITHIN THE CONSTRUCTION LIMITS (I.E. LANDSCAPE EDGE, SMALL CONCRETE SLABS, SMALL RETAINING WALLS, AND CURBS) SHALL BE REMOVED ONLY WITHIN THE CONSTRUCTION LIMITS AND AT THE DIRECTION OF THE ENGINEER, AND SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN EARTH EXCAVATION. ALL OTHER AREAS ARE TO REMAIN UNDISTURBED. ALL HARD SURFACES SHALL BE SAWCUT.

**ADDITIONAL ABBREVIATIONS**

CONSTR	CONSTRUCTION
HGL	HYDRAULIC GRADE LINE
PCBC	PRECAST CONCRETE BOX CULVERT
PRC	PRECAST REINFORCED CONCRETE
FES	FLARED END SECTION

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ROUTE	FAP 600
SECTION	60-(30,31,128)-3
COUNTY	MADISON
CONTRACT	76B85

DESCRIPTION: WIDENING IL 159 FROM JOHNSON ST. TO CUMBERLAND AVE IN COLLINSVILLE

ADT (CONSTRUCTION YR):	26150
MU%:	3
SU%:	3
20 YR. ESAL'S:	3.93

MIXTURE USE	POLY-SURFACE	BINDER	INCIDENTAL SURF	PATCHING
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION (GRADATION MIXTURE)	IL 12.5/9.5	IL 19.0	IL 12.5/9.5	IL 19.0
FRICITION AGG	MIXTURE "E"	MIXTURE "B"	MIXTURE "E"	MIXTURE "B"

MIXTURE USE	TEMP PVMT SURFACE	TEMP PVMT BINDER	BAM/SHOULDER
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 12.5/9.5	IL 19.0	
FRICITION AGG	MIXTURE "D"	MIXTURE "B"	BAM

\*\* TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 lb/sq yd/ln (59.8 kg/sq m/25 mm THICKNESS).